



Standard Specification Sheet Model: MS2920
Chassis-mounting CT Transmitter with Isolated Dual-output
(RMS Operation Model)

MS2900

OVERVIEW



The MS2920 is an instrument to measure load current of power equipment/facilities and to convert it into two channels of mutually isolated DC output signal. Root/Mean/Square (R.M.S.) conversion carried out with multiplier/divider built by taking advantage of logarithmic characteristics of transistors make it possible to perform accurate measurement of the RMS value not only for sinusoidal wave form but also for distorted ones.

- ▽ Multi-unit-mountable chassis for ease of maintenance and high density installation.
- ▽ Perfect isolation mutually between Input — Output No.1 — Output No.2 — Power line.
- ▽ Fuse protection for power line.

ORDERING INFORMATION

Ordering Code		
MS2920	1	8

SPECIFICATIONS

POWER SECTION

Power Requirement	24V DC ±10%
Power Sensitivity	±0.1% max. of output (@10% variation)
Power Fuse	2.2Ω 1/4W Fuse resistor on power line
Power Consumption	50mA max.

INPUT SECTION

Input Signal (Specify at ① when ordering)	AC signal
	<ul style="list-style-type: none"> ■ 0~1A AC 50/60Hz M1 ■ 0~5A AC 50/60Hz M2
Input Loss	0.5VA max.
Input Frequency	50/60Hz

Allowable Over Input	Continuous: 120% of rated input value Instantaneous: 10 times of rated input value (5sec)
Crest Factor	3 max.

OUTPUT SECTION

Output Signal (Specify at ② when ordering)	1st Output Signal/2nd Output Signal ** Order Code <ul style="list-style-type: none"> ■ 1~5V DC/1~5V DC V1 ■ 0~5V DC/0~5V DC V5 ■ 0~10V DC/0~10V DC V6 ■ 1~5V DC/4~20mA DC C1 * The above combination only.
Maximum Output Load	Voltage output: 2mA Current output: 300Ω
Zero Adjustment	Approx. ±2% of span (Adjustable by front-accessible trimmer)
Span Adjustment	Approx. ±2% of span (Adjustable by front-accessible trimmer)

PERFORMANCE

Accuracy Rating	±0.25% max. of output span. (25°C ±5°C)
Temperature Effect	±0.2% max. of span (@10°C variation)
Standard Response Time	Approx. 70msec (0→63%)
Insulation Resistance	100MΩ min. (@500V DC) Input—Output-1—Output-2—Power
Dielectric Strength	Input—[Output-1, Output-2, Power]: 1500V AC for 1 minute Output-1—Output-2—Power: 500V AC for 1 minute
Surge Withstand Capability	Tested for ANSI/IEEE C37.90.1-1989
Operating Environment	Ambient temperature: 0~50°C Humidity: 90%RH max. (Non-condensation)
Storage Temperature	-10~60°C

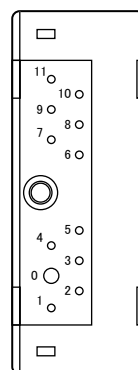
PHYSICAL

Mounting Method	Mountable on chassis (RC2900)
Wiring Method	Wired to chassis (RC2900)
Outer Dimension	W17.5×H48×D65mm (Including socket terminal block and fixing screws.)
Weight	Approx. 70g

MATERIAL

Case	ABS Resin UL94, flame resistant
PC Board	Glass Fabric Epoxy Resin

TERMINAL ASSIGNMENT



Terminal	Signal
①	N.C.
②	N.C.
③	N INPUT
④	L INPUT
⑤	N.C.
⑥	+ OUTPUT 1
⑦	- OUTPUT 1
⑧	+ OUTPUT 2
⑨	- OUTPUT 2
⑩	+ DC24V
⑪	- POWER

BLOCK DIAGRAM

